

City & Guilds 3668

Unit 4: Structured Cabling & Enterprise Networks

Course Programme

Introduction

Features of structured cabling and datacoms networks, network topologies

Evolution

Development of cabling networks, computer systems, topologies, adoption of standards

Basic Electrical Theory

Voltage, current and resistance, measurements with multi-meters, SI units

Signalling on Network Cables

Analogue and digital, frequency and bit rate, electrical characteristics of data cables

Safety

Risk assessments, statutory requirements, rules for safe working, electrical safety

Cables

UTP, FTP, cat 5e, cat 6, cat 7, voice & shielded network cables, types and features

Components

RJ45 connectors, cabinets and patch panels

Standards and Generic Cabling

International & European installation and cabling standards, cable categories and classes (cat 5e, cat 6, cat 7, OFM, OFS)

Installation and Termination

Tools and techniques for termination of cabling (cat 5e, cat 6, voice)

Site Survey

Methods of carrying out a site survey

Voice Cabling

Internal voice cable types, colour codes, termination methods, integration of voice over structured cabling

Testing

Test and certify data cables using Level 3 Testers, telephone circuit testing, fault finding on a cabling system (cat 5e, cat 6, voice)

Course Review

Assessment

Assessment of practical skills, plus an on-line, multiple choice test

Basic Course Details

Reference: CG- 3SC

Duration: 4 days

Hours: 9.00 – 17.00 app.

Location: Lucid Training Centre
or customer site

Delegates: Max 6

Who should attend?

- ★ Installation technicians and supervisors of who will be installing structured cabling systems and voice cabling
- ★ Managers and engineers who require an introduction to theoretical and practical aspects of structured cabling.
- ★ Test engineers who will be required to perform certification testing on structured cabling systems
- ★ Maintenance staff who will be required to perform routine maintenance or emergency fault finding and repair.

How Do I Book?

Please call our office, email or write for course bookings and current availability.

Address: Lucid Training Centre,
Garsdale, Sedburgh, LA10 5PE

Tel: +44 (0)15396 21219

Email: info@lucidos.co.uk